

CNH - SmartFirmer 145365 Installation Guide

Before installation of CNH SmartFirmer:

- Ensure 141214 Case Quick Attach Brackets or 756134 CNH 2000 series FurrowJet/ FurrowForce Quick attach bracket are installed.
- Update 20/20 to newest software from www.precisionplanting.com
- Route Liquid lines and install Liquid Nozzle



Installation guide will show a row unit with gauge wheels and opening discs removed, there is no need to remove either component for installation. (Unless brackets are also being installed)

SmartFirmers are not assigned to specific rows. In order to utilize “Real time control” based upon Organic Matter or CEC, SmartFirmers must be installed within 120 inches of one another. The recommendation for installation is to space them evenly across your planter.

Setup & Operations Manual can be found on the Precision Planting Cloud under Tech Docs
<https://cloud.precisionplanting.com/pubs>

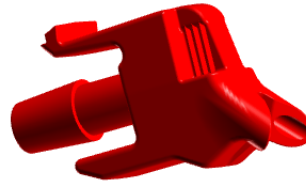
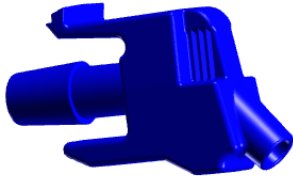
Liquid Nozzle Installation

Step 1:

Remove nozzle from packaging and determine which nozzle will be used for installation.

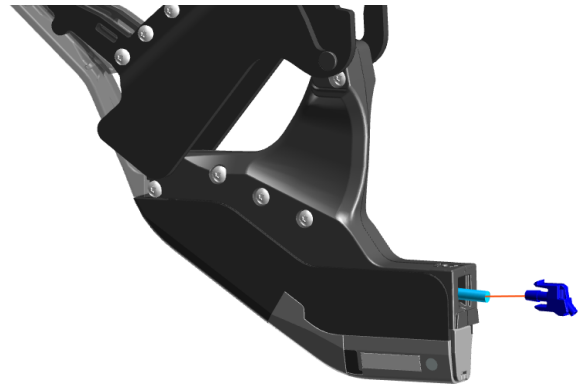
Single Stream Nozzle will apply fertilizer in the bottom of the furrow. (BLUE)

Dual band nozzle will apply fertilizer to furrow side walls (RED)



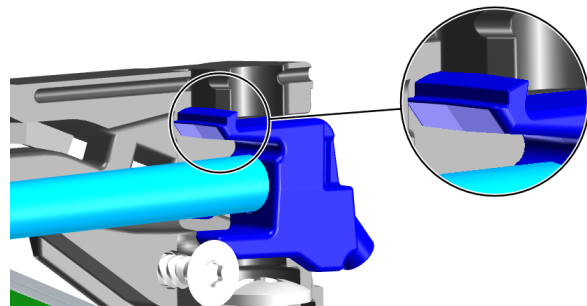
Step 2:

Insert the liquid tubing to the hose barb on the nozzle. Before seating the liquid nozzle to the SmartFirmer, ensure tubing is fully seated on the nozzle barb.



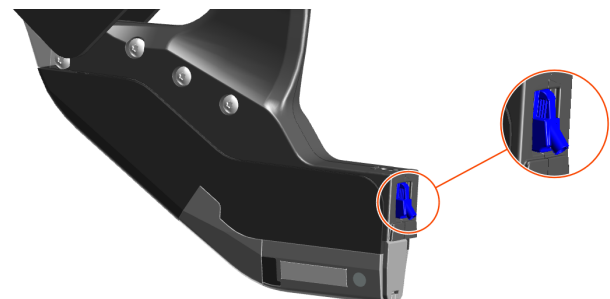
Step 3:

Press the liquid nozzle into the SmartFirmer Body. The nozzle will “click” into place when fully seated.



Step 4:

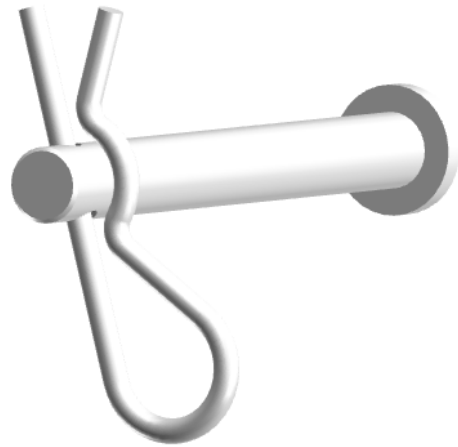
Liquid Nozzle installation is complete.



CNH SmartFirmer Installation

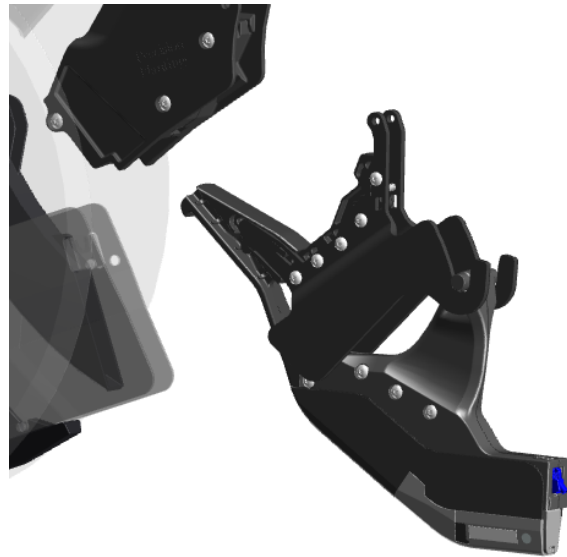
Step 1:

The SmartFirmer will ship fully assembled. For installation locate the Clevis pin and cotter. These will be needed for securing the Assembly to the Case FurrowJet bracket 145214.



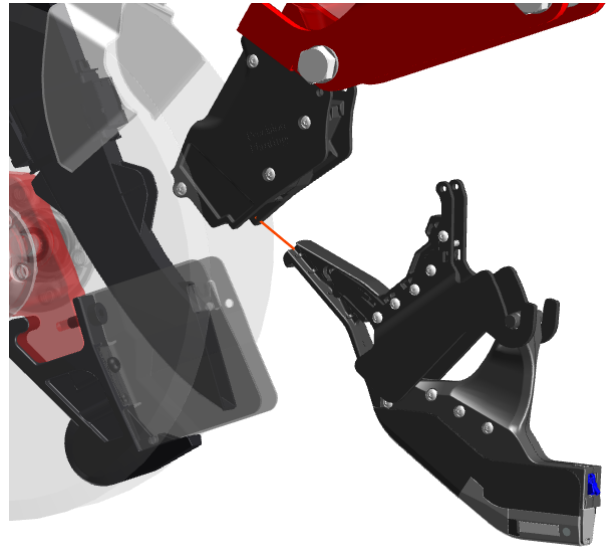
Step 2:

Install the CNH SmartFirmer assembly (145365).

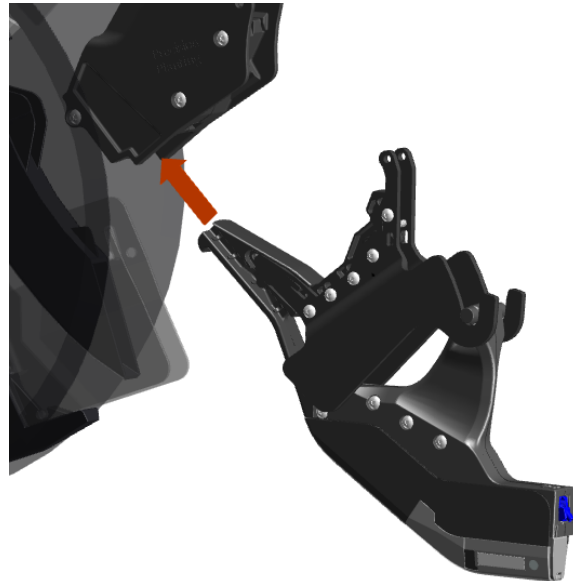


Step 3:

The harness will route up the neck of the SmartFirmer assembly then through the CNH quick attach bracket then up the shank to the CAN Expansion Hub.

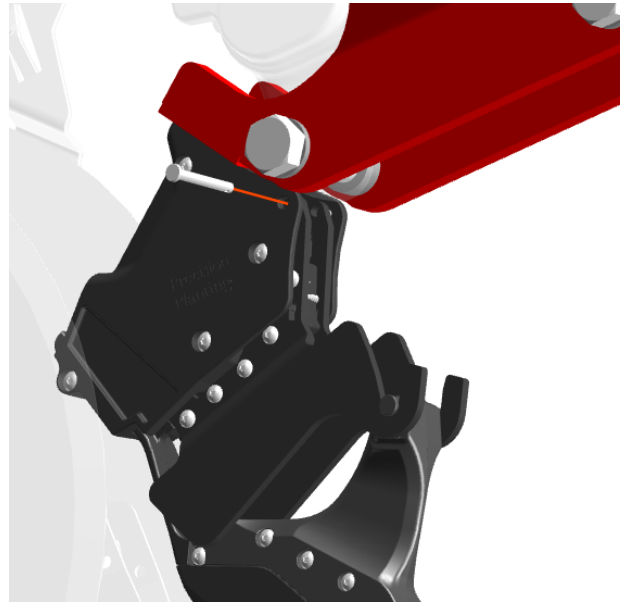
**Step 4:**

Insert the top of the assembly into the front slot of the CNH Quick Attach bracket.



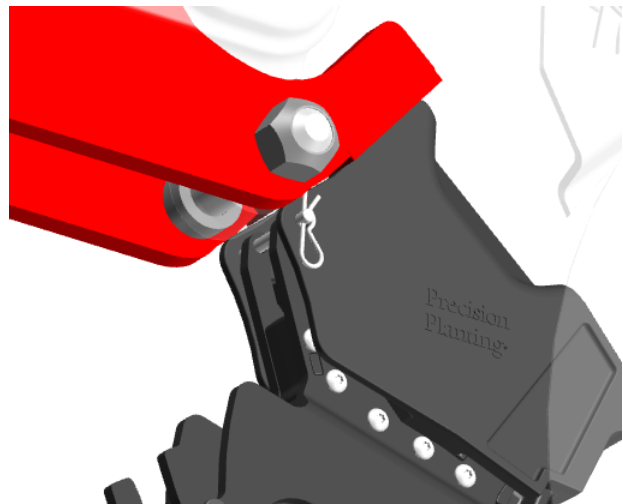
Step 5:

Rotate the SmartFirmer assembly upwards until the rear latch aligns with the clevis pin holes. Insert clevis pin.



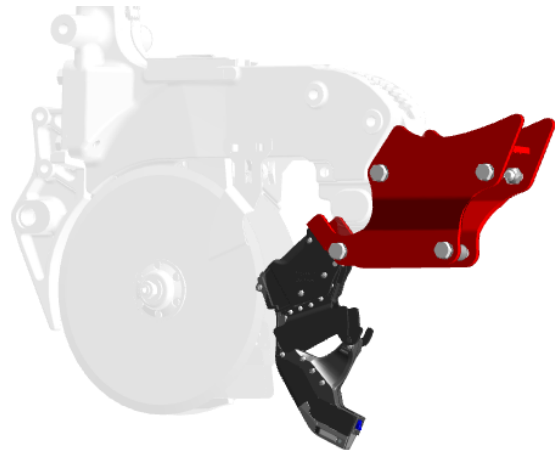
Step 6:

Secure with provided cotter key pin.



Step 7:

Hardware installation is complete.



Step 8:

Route harness up shank towards CAN Expansion Module.

Harness routing will vary between row unit makes/models. Components on row will also affect routing. If the harness is unable to be routed through space provided in front of the seed/speedtube, you may need to route alternatively (Example: route through depth adjustment). Use best judgement for routing, and then secure harness with zip ties or P-clips.

Step 9:

The SmartFirmer harness will plug directly into the CAN Expansion hub. **If the CAN Expansion HUB is installed on the parallel arms or the planter tool frame an extension may be required.**

Step 10:

After installation is complete power on the 20/20 to allow SmartFirmers to complete a firmware update.